



Brian Tse, PhD
October 16, 2019

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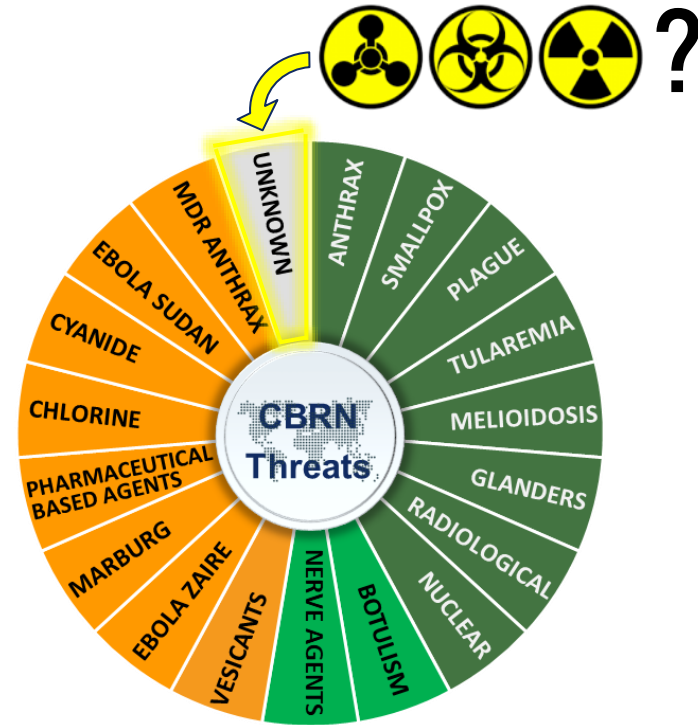


Threat-agnostic MCMs – Why?

“Amongst all threats... these are the ones that most keep us up at night.”

*- Chris Houchens,
Director, CBRN Division*

Q: How do we prepare for threats when the *nature* of the threat is *unknown*?



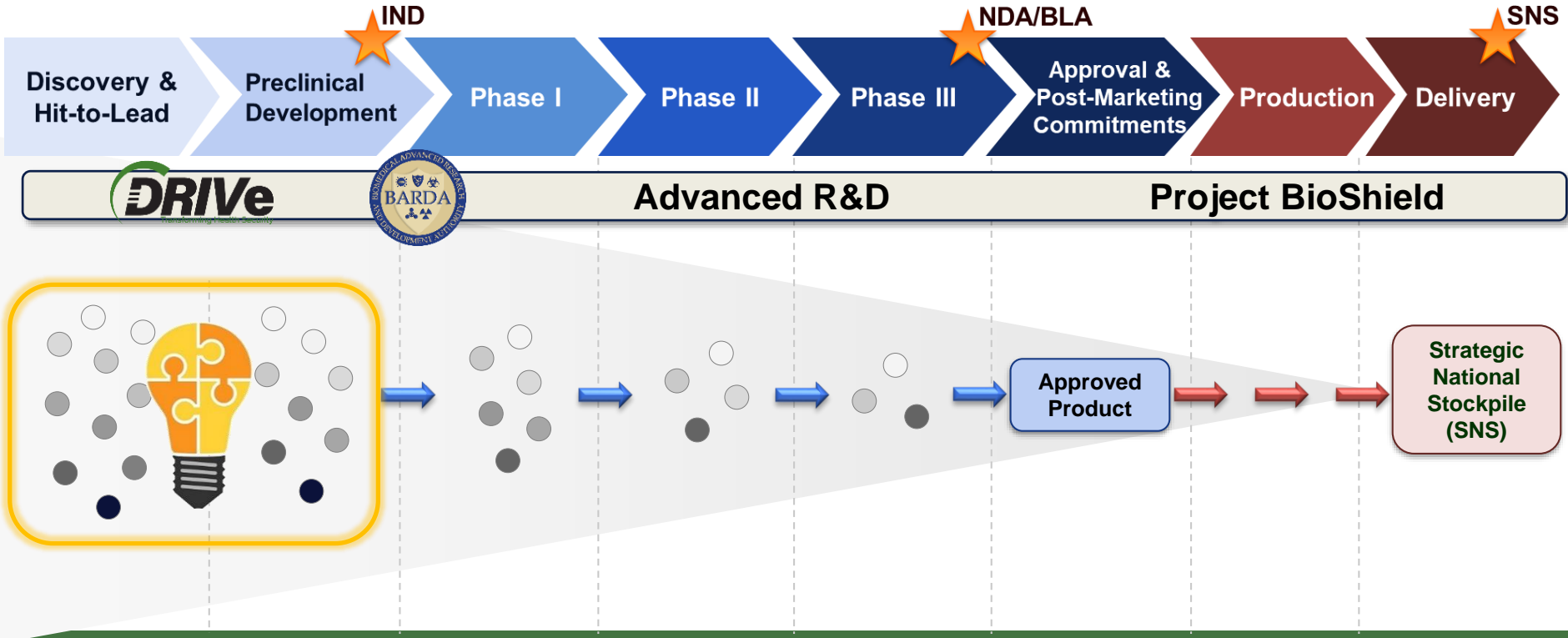
The Beginning of a Conversation

- BARDA is interested in **innovative solutions** to this problem
- Solutions may require **cross-threat collaboration**
- **Emerging science** and **pioneering approaches** will be critical to success

We want to hear
YOUR IDEAS
and
YOUR THOUGHTS
on how to approach this!



Seeking Innovative, Bold New Ideas



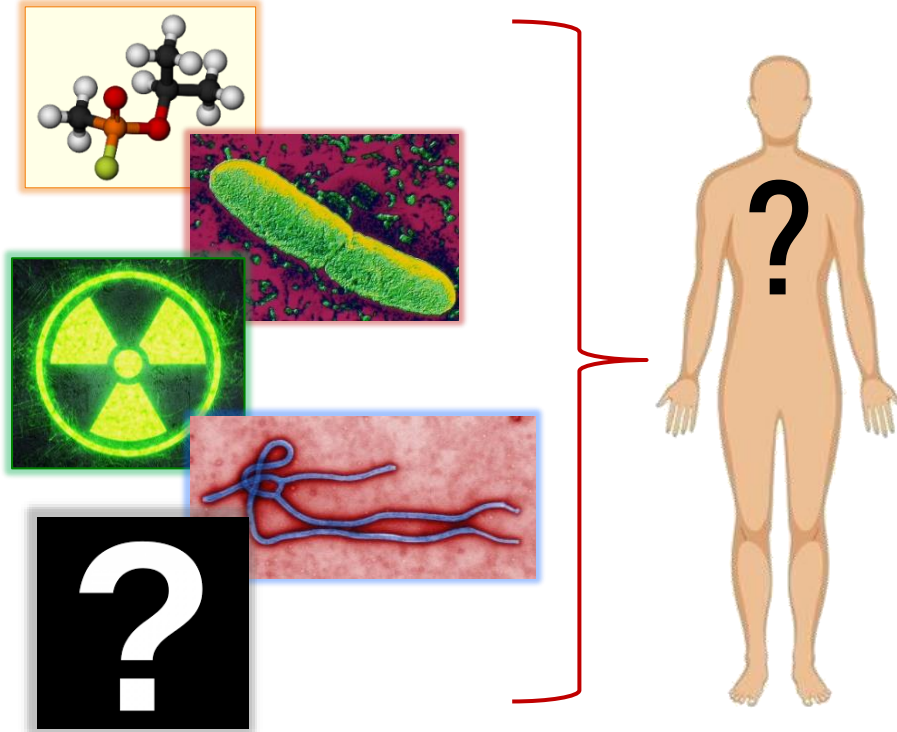
Today's Speakers



- **Brian Tse, PhD – Project Officer**
Division of CBRN Countermeasures (CBRN)
- **Karl Erlandson, PhD – Project Officer**
Division of Influenza & Emerging Infectious Diseases (IEIDD)
- **Renee Wegrzyn, PhD – Program Manager**
Biological Technologies Office (BTO)
- **Amy Krafft, PhD - Program Officer**
Division of Microbiology and Infectious Disease (DMID)



“Threat-agnostic” – A Tricky Idea



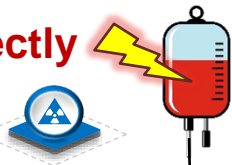
- Root cause may be:
 - Known threat, but difficult or prohibitively slow to identify
 - **Novel threat not previously known or recognized**
- Approach may rely on:
 - Direct treatment of downstream symptoms
 - Modulating body's general defense mechanisms
 - General exposure reduction

Preliminary Thoughts: How Might We Do This?

Exposure Reduction

Reduce exposure indirectly

- pathogen reduction (*limited to biological)



Reduce exposure directly

- decontamination



Host-directed Approaches

Modulate body's defense systems

- immunomodulation



Target downstream symptoms

- anticonvulsants
- tissue repair
- cytokines



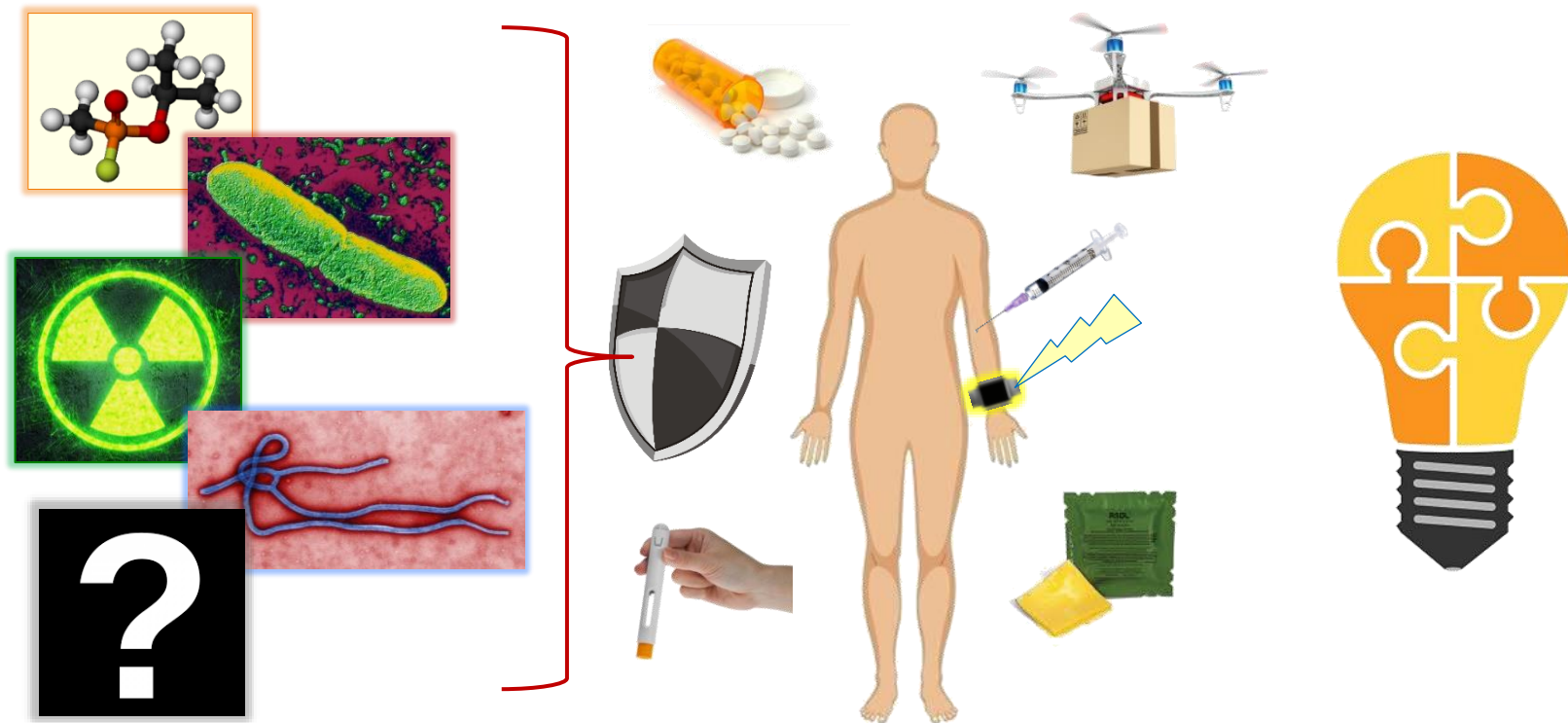
Enhance innate cellular resilience

- gene modulation

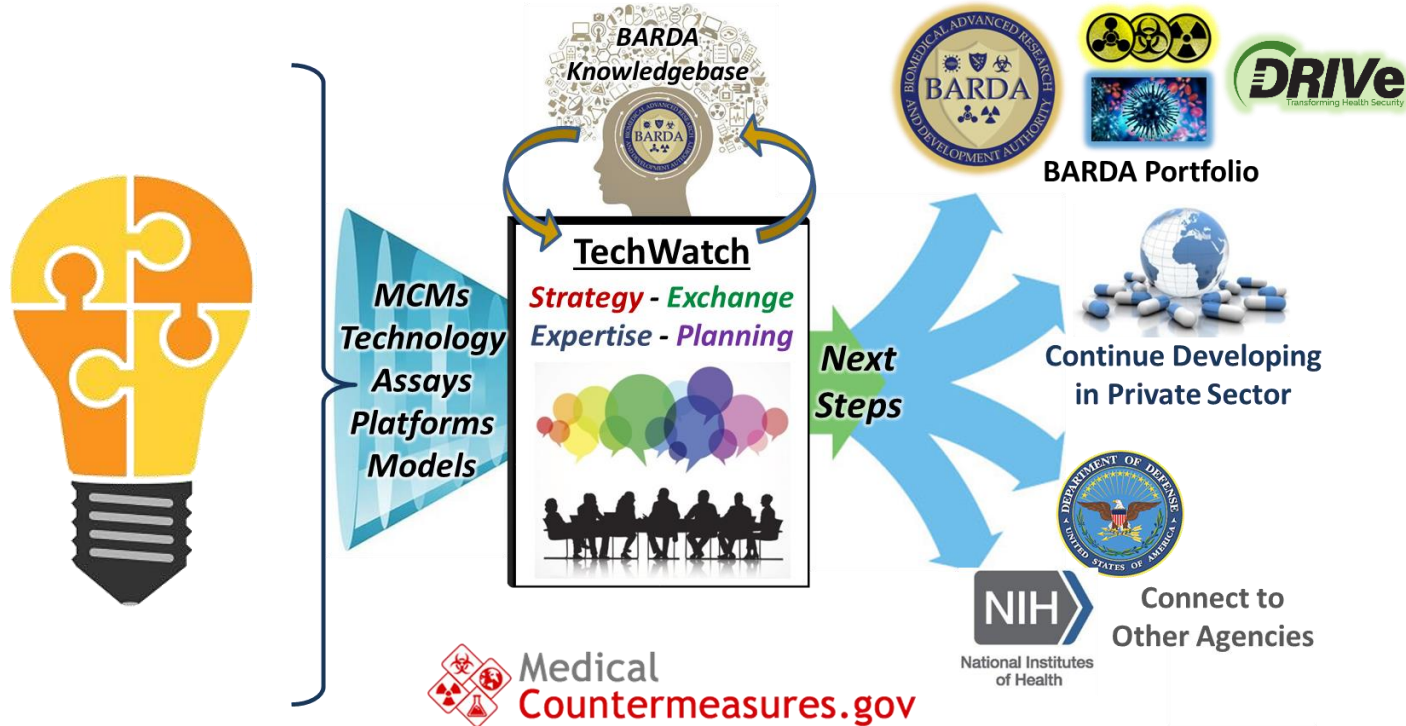


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BARDA INDUSTRY DAY 2019

October 15-16, 2019

Catalyze Health Security

